

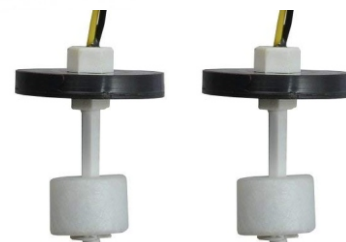


RMG AUTOMATION

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Digital Real Time Water Level Controller

Model : RTWLC



User Manual



1. INTRODUCTION

This controller is a real time based timer used for switching the motor pumps for the set time along with water overflow preventer. It has 25 ON & OFF programmable time slots where the motor pump can be controlled for the set time. In addition to that, it will also switch OFF the motor when the tank is full (or sump empty in case of Sump Users) within the programmed slot. This device has a password protected access facilitating the users to avoid unauthorized handling. It is so unique that if power fails and resumes, the motor pump continues running within the programmed slot, but will skip to the next programmed slot once switched OFF when tank is full. Magnetic float sensors are used for Tank & Sump water Levels. Above all, the controller device has an advanced SMPS circuit to support wide input power supply of AC 230 / AC 440.

2. DESCRIPTION

- **Power ON/OFF switch:** This switch is provided at the bottom of the device to switch ON or switch OFF the controller unit. There is a power ON delay of 6 seconds.
- **Fuse:** Auto cut off in event of any excessive current
- **Alpha numerical 2x16 LCD display:**
 - **Home Screen:** It will display the current date and day on the first line. It shows the current time and status on the second line.
 - **Status in the LCD:** It includes Auto / Manual, Motor ON / OFF, Tank Full / Low, Sump OK / Low.
- **Menus:**
 - **Set Date / Time:** It helps to set the current date, month, year, hours, minutes and day
 - **Set ON & OFF time:** It helps to set the ON & OFF time slots.
 - **Mode:** It helps to select the AUTO / MANUAL operation. In AUTO mode, the timer works based on the set time. In MANUAL mode, NEXT and UP keys are used for switching ON /OFF operation
 - **Change Password:** It helps to change / update the current password.
- **INPUT keys:**
 - **SET key:** It is used for entering the menu and to save the settings.
 - **NEXT key:** It is used for moving to the NEXT options like Menu, Successive Locations.
 - **UP key:** Used to set the values in date, time, password.

3. TOOLS REQUIRED

- | | |
|---|------------------------------------|
| • Single pair or 2 pair communication cable | • Line tester |
| • Multistrand power cable | • Wire stripper |
| • Insulation tape | • Simple hammer |
| • Wooden Gattas | • Drill gun |
| | • Screws for mounting unit on wall |

4. INSTALLATION PROCEDURE

Caution: Switch off the main power while doing the Power Connection steps.

Step 1: Wall mount the timer nearby the switch of motor which requires timer operation..

Step 2: As per the model purchased, check the label and connect AC supply (230V / 440 V) to red and black wire of timer refer figure 1.

Step 3: Connect blue pair wire to the switch/MCB of the motor in parallel as shown in figure 1.

Step 4: For starter, Connect blue pair wire to ON button of starter in parallel and black pair wire to OFF button in series (Refer to figure.2 and figure.3)

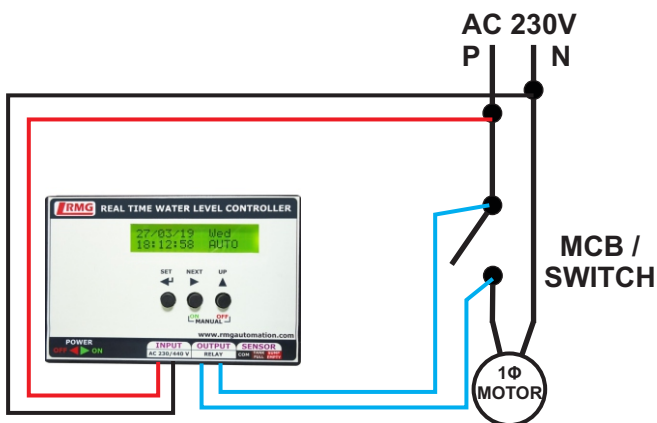


Figure1: 1Φ SWITCH/MCB

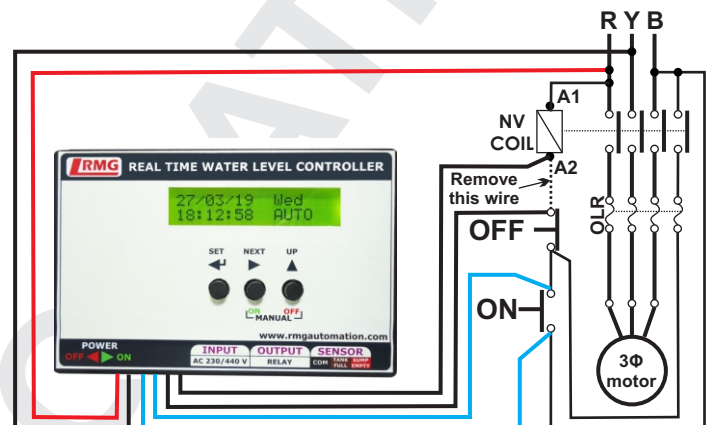


Figure2: 3Φ Starter

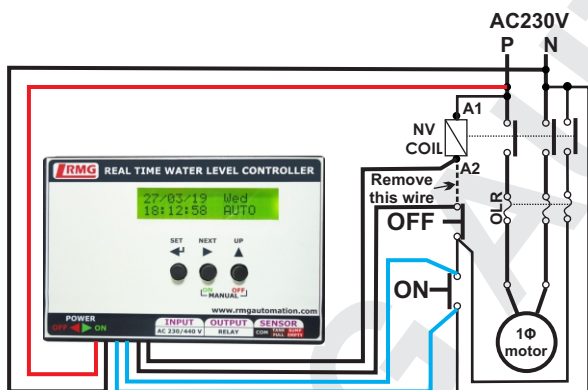


Figure3: 1Φ Starter

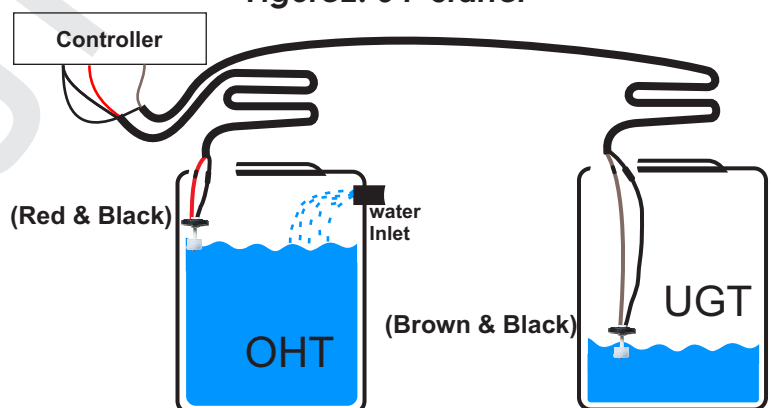


Figure4: Sensor Connection

Note: In case of doubts in installation, please call 044 - 43180017 or What's App 9940594413 from Monday to Saturday 10 am to 6 pm.

Step 5: Lay 4 core cable between controller and tanks. Join one end of the 4 core cable to sensor line of the controller as per colour coding. In tank side, **Magnetic float sensor connections:** These sensor has 2 wires. Use any one wire in each sensor as common. Other wires left in each can be used for levels. Join them with 4 core cable as per label coded. (Refer figure 4). If you have Over Head Tank only model do the sensor connection only in OHT.

Step 6: Immerse the sensors inside the OHT & UGT as per Figure, and tape it. This completes installation.

5. OPERATING PROCEDURE

- Switch ON the device using the power ON/OFF switch. There is a power ON delay of 6 seconds.
- Using SET, NEXT and UP keys program the timer depending on your requirement. Refer **Programming methods** for more programming.
- Depending upon the set ON Time and OFF Time, Timer will ON/OFF the motor connected to it. Timer will ON the motor only if sufficient water is present in Under Ground Tank.
- Timer will OFF the motor when Over Head Tank is full even if set time is not attained.
- You can **reset** the timer by pressing **NEXT** and **UP** buttons together.

6. TROUBLE SHOOTING METHODS

Sl. No.	Error	Solutions
1	Device dead / Not Powered ON	a. Check the power connection wires for loose contacts. b. If problem continues, contact RMG Automation for support
2	Motor not switching ON	a. Check whether the connections are given properly. b. If connections are okay and still issue persist, contact RMG Automation for support

5. PROGRAMMING METHODS

